

PE NUMBER: 0102325F

UNCLASSIFIED

PE TITLE: Joint Surveillance System

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0102325F Joint Surveillance System				PROJECT 2996		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2996 FAA/AF Radar Replacement (FARR)	1,687	2,099	0	0	0	0	0	0	0	23,362
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**

The Joint Surveillance System (JSS) provides command, control and communications (C3) capability in support of CINC NORAD's (North American Aerospace Defense) Atmospheric Tactical Warning and Attack Assessment (ATW/AA) air sovereignty, and air defense requirements. The FAA/Air Force Radar Replacement (FARR) program replaces 39 existing JSS radars and 1 log set radar with solid-state, three-dimensional ARSR-4 radars to improve mission performance and reduce operation and maintenance costs. The ARSR-4 radars provide three-dimensional (range, azimuth, and height) digital data on aircraft targets within a 200+ nautical mile radius.

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<p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 335 Provided program office support – (U) \$ 20 Continued test support for FARR Joint Program Office (JPO) – (U) \$ 632 Continued installation, test and system checkout – (U) \$ 700 Continued interoperability evaluations and commissioning support – (U) \$ 1,687 Total <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 522 Provide program office support – (U) \$ 720 Continue test and system checkout – (U) \$ 800 Continue interoperability evaluations and commissioning support – (U) \$ 57 Identified as a source for SBIR – (U) \$ 2,099 Total <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 0 No further funding in this project <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$ 0 No further funding in this project <p>(U) <u>B. Budget Activity Justification:</u></p> <p>This program is in budget activity 7 - Operational System Development because it provides funding for the modernization of a currently existing and operating system.</p>		
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<p>(U) C. <u>Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;"></th> <th style="width: 15%; text-align: center;"><u>FY 1998</u></th> <th style="width: 15%; text-align: center;"><u>FY 1999</u></th> <th style="width: 15%; text-align: center;"><u>FY 2000</u></th> <th style="width: 15%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">1,831</td> <td style="text-align: center;">2,175</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">23,771</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">2,020</td> <td style="text-align: center;">2,175</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Cong /General ReductionS</td> <td style="text-align: center;">-168</td> <td style="text-align: center;">-76</td> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="padding-left: 20px;">b. SBIR</td> <td style="text-align: center;">-21</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: center;">-82</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. Below Threshold Reprogramming</td> <td style="text-align: center;">-62</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Year Since FY 1999 PB</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY2000 PB</td> <td style="text-align: center;">1,687</td> <td style="text-align: center;">2,099</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">23,362</td> </tr> </tbody> </table> <p style="margin-top: 20px;">(U) Significant Program Changes:</p> <p>FY99: \$57 identified as a source for SBIR.</p>							<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>	(U) Previous President's Budget	1,831	2,175	0	0	23,771	(U) Appropriated Value	2,020	2,175				(U) Adjustments to Appropriated Value						a. Cong /General ReductionS	-168	-76			0	b. SBIR	-21					c. Omnibus or Other Above Threshold Reprogram	-82					d. Below Threshold Reprogramming	-62					(U) Adjustments to Budget Year Since FY 1999 PB						(U) Current Budget Submit/FY2000 PB	1,687	2,099	0	0	23,362
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<div style="display: flex; justify-content: space-between;"> Project 2996 Page 3 of 6 Pages Exhibit R-2 (PE 0102325F) </div>																																																																	

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0102325F Joint Surveillance System					PROJECT 2996	

(U) D. Other Program Funding Summary (\$ in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) Other Procurement AF, WSC 86190A	849	739	192	62	28	0	0	0	TBD	TBD

(U) E. Acquisition Strategy:

The Federal Aviation Administration (FAA) is the lead acquisition agency for the FAA/AF Radar Replacement Program in accordance with a 19 November 1984 sub-agreement (as amended by Amendment 1, dated 1 September 1988) to FAA/AF National Agreement (NAT) 711. The FAA and the Air Force have established a joint Program Office at HQ, FAA, Washington, DC for this procurement. Northrup Grumman Corporation, Linthicum, MD is the prime contractor for the FARR program.

(U) F. Schedule Profile

	<u>FY 1998</u>			<u>FY 1999</u>			<u>FY 2000</u>			<u>FY 2001</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U) FARR last operational readiness date					x							
(U) FARR follow-on support including baselining/commissioning before FAA final acceptance								x				

* Denotes completed event
x Denotes planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)				DATE
BUDGET ACTIVITY				February 1999
7 - Operational System Development				PROJECT
PE NUMBER AND TITLE				2996
0102325F Joint Surveillance System				
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>				
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Systems engineering	700	800		
(U) Contractor engineering support	140	150		
(U) Installation/Test/Checkouts	512	570		
(U) Program Office support	335	522		
(U) Identified as a source for SBIR		57		
(U) Total	1,687	2,099		
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE February 1999		
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0102325F Joint Surveillance System					PROJECT 2996	
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
None											
<u>Support and Management Organizations</u>											
MITRE	Various		N/A	N/A	4,399	700	800			0	5,899
TEMS	Various		N/A	N/A	1,669		150			0	1,819
Martin Marietta	Various		N/A	N/A	6,199	140				0	6,339
Program Office Support	Various		N/A	N/A	1,514	335	522			0	2,371
<u>Test and Evaluation Organizations</u>											
Various					5,795	512	570			0	6,877
Government Furnished Property: None											
Identified as a source for SBIR							57				57
Subtotal Product Development					0	0	0			0	0
Subtotal Support and Management					13,781	1,175	1,472			0	16,428
Subtotal Test and Evaluation					5,795	512	570			0	6,877
Total Project					19,576	1,687	2,099			0	23,362
Project 2996											
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Exhibit R-3 (PE 0102325F)											